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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: T-4358

TEST REPORT ON COARSE AGGREGATES

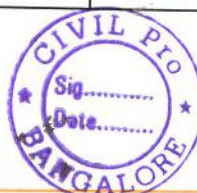
Lab ID : CP-2017-06-20-02 Date: 23-06-2017
Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address : Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyaranyapura, Bangalore-560097.
Customer's Reference : BBMP/EE/BTP/WO/15/2017-18
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 20-06-17
Sample ID No : 2017-06-20-02-02(a)
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 20-06-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	237	237	1.6	98.4	90-100
3	20 mm	8384	8621	57.5	42.5	30-70
4	10 mm	4288	12909	86.1	13.9	10-35
5	4.75 mm	1748	14657	97.7	2.3	0-5
6	Pan	343	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-06-20-02
Sample ID No : 2017-06-20-02-02(a)

Date: 23-06-2017

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.3	
3	Specific Gravity	2.61	—
4	Bulk Density(Loose) (Kg/l)	1.46	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.2	—

Note:

The results pertain to the samples received and tested.
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Prepared by
Harshitha



FOR CIVIL Pro.
R. Karthik Rechan
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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: T-4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-06-20-02 Date: 22-06-2017
 Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
 Address : Vidyaranyapura Sub division, BBMP, Bangalore.
 Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
 Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyaranyapura, Bangalore-560097.
 Customer's Reference : BBMP/EE/BTP/WO/15/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 20-06-17
 Sample ID No : 2017-06-20-02-01
 Sample Type : ACC cement 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
 IS 4031 (Part 1,2 3,4,5, 6,11):1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
 Date of test : 21-06-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.15	—
2	Fineness by Air permeability method (m ² /kg, Min)	283.6	225m ² /kg, Min
3	Density (gm/cc)	3.18	—
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-06-20-02 **Date:** 19-07-2017
Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address : Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyaranyapura, Bangalore-560097.
Customer's Reference : BBMP/EE/BTP/WO/15/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 20-06-17
Sample ID No : 2017-06-20-02-01
Sample Type : ACC cement 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 21-06-17

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	55.5N/mm ²	Not less than 53 N/mm ²

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-06-20-02 Date: 24-06-2017
Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address : Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyaranyapura, Bangalore-560097.
Customer Reference : BBMP/EE/BTP/WO/15/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 20-06-17
Sample ID No : 2017-06-20-02-02(b)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 20-06-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	264	264	5.3	94.7	90-100
3	10 mm	2857	3121	62.4	37.6	25-55
4	4.75 mm	1638	4759	95.2	4.8	0-10
5	Pan	241	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-06-20-02
Sample ID No : 2017-06-20-02-02(b)

Date: 24-06-2017

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	14.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.2	
3	Specific Gravity	1.58	—
4	Bulk Density(Loose) (Kg/l)	1.51	—
5	Bulk Density(Compacted) (Kg/l)	1.57	—
6	Water Absorption(%)	0.26	—
7	Aggregate crushing Value(%)	23.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	19.3	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-06-20-02 Date: 24-06-17
 Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
 Address : Vidyaranyapura Sub division, BBMP, Bangalore.
 Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
 Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyaranyapura, Bangalore-560097.
 Customer's Reference : BBMP/EE/BTP/WO/15/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 20-06-17
 Sample ID No : 2017-06-20-02-03
 Sample Type : Fine aggregate
 Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
 IS: 2386 :1963(Part - 1, 3) RA2012
 IS 2386 Part 1: Particle Size and Shape
 IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 20-06-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	53	53	5.3	94.7	90-100	90-100	90-100	95-100
3	2.36 mm	182	235	23.5	76.5	60-95	75-100	85-100	95-100
4	1.18 mm	186	421	42.1	57.9	30-70	55-90	75-100	90-100
5	600 micron	124	545	54.5	45.5	15-34	35-59	60-79	80-100
6	300 micron	217	762	76.2	23.8	5-20	8-30	12-40	15-50
7	150 micron	176	938	93.8	6.2	0-10	0-10	0-10	0-15
8	Pan	62	1000	100	0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-06-20-02

Date: 24-06-17

Sample ID No : 2017-06-20-02-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.48	—
2	Specific Gravity	2.56	—
3	Material finer than 75 micron(%)	5.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2017-06-21-01 Date: 24-06-17

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.

Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/15/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-06-17

Sample ID No : 2017-06-21-01-02(a)

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 21/06/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.58	100.51	1.132	4486	80.9	18.0	16.8	21.0
2	Cover Slab-2	75.45	100.54	1.128	4470	78.6	17.6	16.4	20.4
3	Cover Slab-3	75.52	100.49	1.133	4478	79.2	17.7	16.4	20.6

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Lab ID : CP-2017-06-21-01 Date: 22-06-17
Customer : Assistant Executive Engineer, Vidyanarayapura Sub division, BBMP, Bangalore.
Address : Vidyanarayapura Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyanarayapura Sub division.
Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyanarayapura, Bangalore-560097.
Customer's Reference : BBMP/EE/BTP/WO/15/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-06-17
Sample ID No : 2017-06-21-01-01
Sample Type : JSW
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 21-06-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	JSW	Fe500	8	0.391	545	672	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.615	568	682	20.0%	Satisfactory	Satisfactory
3	JSW	Fe500	12	0.888	582	695	19.0%	Satisfactory	Satisfactory

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-03-06 **Date:** 05-07-17

Customer : Assistant Executive Engineer, Vidyanayapura Sub division, BBMP, Bangalore.

Address : Vidyanayapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyanayapura Sub division.

Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyanayapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/15/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-17

Sample ID No : 2017-07-03-06-01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	28/06/2017	05/07/2017	151.37 X 150.38 X 150.52	22763	8.298	375.6	16.5	16.8
2	Drain Concrete	M20	28/06/2017	05/07/2017	150.23 X 150.55 X 150.57	22617	8.286	389.0	17.2	
3	Drain Concrete	M20	28/06/2017	05/07/2017	150.86 X 150.74 X 150.65	22741	8.269	382.0	16.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-03-06 Date: 26-07-17

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.

Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyaranyapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/15/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-17

Sample ID No : 2017-07-03-06-02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	28/06/2017	26/07/2017	150.27 X 150.22 X 150.63	22574	8.305	501.1	22.2	22.6
2	Drain Concrete	M20	28/06/2017	26/07/2017	150.42 X 150.18 X 150.54	22590	8.316	524.1	23.2	
3	Drain Concrete	M20	28/06/2017	26/07/2017	151.74 X 150.65 X 150.38	22860	8.298	512.1	22.4	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2017-07-10-01 Date: 11-07-17
Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address : Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyaranyapura, Bangalore-560097.
Customer Reference : BBMP/EE/BTP/WO/15/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 10-07-17
Sample ID No : 2017-07-10-01-01
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 10-07-17
Oven Dry Weight : 11500 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	435	435	3.8	96.2	95-100
22.4	2289	2724	23.7	76.3	60-80
11.2	2871	5595	48.7	51.3	40-60
4.75	2258	7853	68.3	31.7	25-40
2.36	1602	9455	82.2	17.8	15-30
0.6	910	10365	90.1	9.9	8-22
0.075	876	11241	97.7	2.3	0-5

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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No.: T- 4358

TEST REPORT OF AGGREGATE IMPACT VALUE

IS: 2386 Part IV

Lab ID : CP-RW-2017-07-10-01 Date: 11-07-17
 Customer : Assistant Executive Engineer, Vidharanyapura Sub division, BBMP, Bangalore.
 Address : Vidharanyapura Sub division, BBMP, Bangalore.
 Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidharanyapura Sub division.
 Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidharanyapura, Bangalore-560097.
 Customer Reference : BBMP/EE/BTP/WO/15/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 10-07-17
 Sample ID No : 2017-07-10-01-01
 Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
 Date of test : 10-07-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	295.5	295.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	63.9	63.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	231.3	232.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.2
5	Aggregate impact value	(B/A)*100	21.6	21.3
6	Aggregate impact value (Mean of two tests)	Pcentage	21.5	

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Certificate No.: T- 4358

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2017-07-10-01 Date: 11-07-17
Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address : Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyaranyapura, Bangalore-560097.
Customer Reference : BBMP/EE/BTP/WO/15/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 10-07-17
Sample ID No : 2017-07-10-01-01
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 10-07-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	14.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.6%	
Combined Flakiness and Elongation Index for WMM	27.1%	

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Certificate No.: T-4358

TEST REPORT ON BITUMEN

Lab ID : CP-2017-07-11-02 Date: 13-07-17
Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address : Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyaranyapura, Bangalore-560097.
Customer's Reference : BBMP/EE/BTP/WO/15/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 11-07-17
Sample ID No : 2017-07-11-02-01
Sample Type : Bitumen
Reference to BIS codes : IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test : 12-07-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C, in 1/10th mm	66	60 to 70
2	Softening Point, °C	48.2	Min. 40°C
3	Ductility, cm	93	Min. 75cm
4	Flash point, °C	225	Min. 220°C
	Fire point, °C	234	

Note:

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Certificate No.: T- 4358

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR SEMI DENSE BITUMINOUS CONCRETE

Lab ID : CP-RW-2017-07-21-01 Date: 23-07-17
 Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
 Address : Vidyaranyapura Sub division, BBMP, Bangalore.
 Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
 Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyaranyapura, Bangalore-560097.
 Customer Reference : BBMP/EE/BTP/WO/15/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 21-07-17
 Sample ID No : 2017-07-21-01-01
 Type of Mix : SDBC (Semi Dense Bituminous Concrete)
 Date of test : 21-07-17

Physical Requirements fo Coarse Aggregate for Semi Dense Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.5	Combined Flakiness & Elongation Index is Maximum 30%	IS:2386 Part I
	Elongation Index	11.9		
Strength	Aggregate Impact Value	22.7	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.57	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.25	Maximum 2%	IS:2386 Part III

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**TEST REPORT OF AGGREGATE STRIPPING VALUE OF ROAD AGGRGATE
(IS:6241)**

Lab ID : CP-RW-2017-07-21-01 Date: 23-07-17
Customer : Assistant Executive Engineer, Vidyananyapura Sub division, BBMP, Bangalore.
Address : Vidyananyapura Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyananyapura Sub division.
Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyananyapura, Bangalore-560097.
Customer Reference : BBMP/EE/BTP/WO/15/2016-17
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-07-17
Sample ID No : 2017-07-21-01-01
Type of Mix : SDBC (Semi Dense Bituminous Concrete)
Date of test : 21-07-17

Type of Binder : 60/70
% of Binder Used : 5.0%
Weight of Aggregate : 200.0 gm
Weight of Binder : 10.0 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.5	2.5	97.8	Minimum Retained Coating 95%
2	98.0	2.0		
3	98.0	2.0		

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2017-07-21-01 Date: 23-07-17
Customer : Assistant Executive Engineer, Vidyananyapura Sub division, BBMP, Bangalore.
Address : Vidyananyapura Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyananyapura Sub division.
Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyananyapura, Bangalore-560097.
Customer Reference : BBMP/EE/BTP/WO/15/2017-18
Source of Sample : Hot Mix Plant, Bangalore
Sample Condition : Satisfactory
Date of Receipt : 21-07-17
Sample ID No : 2017-07-21-01-01
Type of Mix : SDBC (Semi Dense Bituminous Concrete)
Date of test : 21-07-17

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-16
1	Marshal Stability at 60°C, KN	10.54	10.25	8.2KN(min)
2	Marshal flow at 60°C, mm	3.22	3.26	2-4
3	Percent air Voids	4.59	4.25	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.48	13.14	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.32	70.12	65-75
6	Density, g/cc	2.24	2.26	-

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**TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)**

Lab ID : CP-RW-2017-07-25-01 Date: 26-07-17
Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address : Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains of Varadaraja swamy 2nd stage roads in Ward no.11 (Kuvempunagara) in Vidyaranyapura Sub division.
Agency : Sri.Subbanna.V, No.142, Singapura Village, Vidyaranyapura, Bangalore-560097.
Customer Reference : BBMP/EE/BTP/WO/15/2017-18
Source of Sample : Sample supplied by Agency
Date of Receipt : 25-07-17
Sample ID No : 2017-07-25-01-01
Type of Mix : SDBC (Semi Dense Bituminous Concrete)
Date of test : 25-07-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	501	501
2	Weight of the sample After extraction	B	476	475
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.99	5.19
4	Average percentage	%	5.09	

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Lab ID : CP-RW-2017-07-25-01

Date: 26-07-17

Sample ID No : 2017-07-25-01-01

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 476

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	26	26	5.5	94.5	90-100
4.75	234	260	54.6	45.4	35-51
2.36	86	346	72.7	27.3	24-39
1.18	51	397	83.4	16.6	15-30
0.3	18	415	87.2	12.8	9-19
0.075	39	454	95.4	4.6	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 475

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	24	24	5.1	94.9	90-100
4.75	233	257	54.1	45.9	35-51
2.36	82	339	71.4	28.6	24-39
1.18	46	385	81.1	18.9	15-30
0.3	24	409	86.1	13.9	9-19
0.075	43	452	95.2	4.8	3-8

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